W	ork	Order	ID	58224
• •				

April 29, 2010 11:39:28 AM



Page 1

Item ID:

D205-634-041

Accept.



Setup Start



**Revision ID:** 

Item Name: Replacement Skidtube

**Customer:** 

**Cust Item ID:** 

**Start Date:** 

29/04/2010

Start Qty: 1.00

**Required Date:** 13/05/2010 Req'd Qty: 1.00

Reference:

Dates 4/29

Tooling:

Date:

Run

Start

Stop



**Approvals:** 

**Process Plan:** 

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ **Work Center ID**  Operation Description

Set Up/ **Run Hours**  Draw Number

Draw Plan Rev.

Accept Code Qty

Reject Qty

Reject Number

Insp. Stamp

**Draw Nbr** 

**Revision Nbr** 

D2580 Rev D

100

DOCUMENT CONTROL

Memo

0.00

0.00

Document Control

Photocopy D205-634 bluefile & type labels per PPP D205-634-041 CHG002

110

CNC Bend 1

CNC Delta 100 Bender

0.00

**BENDING MACHINE - SKIDTUBES** 

Memo

0.00

1-Bend as per program D2580.C on CNC Bender and Folio FT009

2-Cut tubes as per Dwg. D2580

Dart Ae	rospace	Ltd							•
W/O:			V	ORK ORDER CHANGI	ES				<del>,                                    </del>
DATE	STEP	PRO	CEDURE CH	IANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Ca	tegory:	NCR: Yes	No DQA	•	Date: _	4 ·
	Re	esolution:	Disposit	ion:	QA: N/C CI	osed:		Date: _	
NCR:		V	WORK OR	DER NON-CONFORMA	NCE (NCF	R)			
DATE	CTED	Description of NC		Corrective Action Section	on B	Verifica	ation	Approval	Anneolol
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	Section		Chief Eng	Approval QC Inspector

NCR:		W	ORK OR	DER NON-CONFORMANC	E (NCR)			
DATE		Description of NC		Corrective Action Section B			Ammuousi	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector
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Work Order ID	58224	
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April 29, 2010 11:39:28 AM



Page 2

Item ID:

D205-634-041

Accept



Setup Start



**Revision ID:** 

Item Name:

Replacement Skidtube

Start Date:

29/04/2010

QC:

Start Qty: 1.00

Req'd Qty: 1.00 **Required Date:** 13/05/2010



Cust Item ID:

**Customer:** 

Reference:

Αı	nnro	vals	•
4 -	Pro	, , 413	•

Process Plan:

Date: Date:\_\_\_\_\_

Tooling:

SPC (Y/N):

Date:

Date:

Run

Start

Stop



Stop

Qty

Sequence ID/ **Work Center ID** 

Operation Description

Set Up/ **Run Hours**  Draw Number

Draw Rev.

Plan Code

Accept Qty

Reject Reject

Insp. Number Stamp

120

Skidtubes

Skidtubes

Memo

0.00

0.00

1- Deburr ends

QC5- Inspect part completeness to step on W/O

2- C'sink holes as per dwg without cutting fluid

3- Prepare tube for welding, remove alodine as required.

4- Scribe batch number insied aft end of tube.

130

QC

Memo

0.00

0.00

Distorto6

Quality Control

Dart A	erosp	oace l	Ltd
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W/O:			\ <b>\</b> /	ORK ORDER CHANG	EC			
DATE	STEP	PRO			Ву	Date G	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		<u> </u>						
Part No	Part No: PAR #:							
							Date: _	
NCR:		V	VORK ORD	ER NON-CONFORMA	NCE (NCR	)		
DATE	STEP	Description of NC	Initial	Corrective Action Section Action Description	on B	Verificati		Approval
		Section A	Chief Eng	Chief Eng	Date	Section C	Chief Eng	QC Inspector
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Work Order ID	58224
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April 29, 2010 11:39:28 AM



Page 3

Item ID:

D205-634-041

Accept

Setup Start

Stop



**Revision ID:** 

Item Name:

Replacement Skidtube

**Start Date:** 

29/04/2010

Start Qty: 1.00

**Required Date: 13/05/2010** Req'd Qty: 1.00



**Cust Item ID:** 

Customer:

Reference:

Approvals:	Process Plan:	Date:	Tooling:	Date:	Run	Start	
	QC:	Date:	SPC (Y/N):	Date:		Stop	

Sequence ID/ Work Center ID

Operation Description

Set Up/ **Run Hours**  **Draw** Number

Plan Draw Rev. Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

140



Skidtubes Skidtubes

Memo

0.00

0.00

1-Weld step D2576 as per Dwg. D2580 and QSI 004 A/R□□□ Aluminum Rod

2-Prep per QSI 005 and weld crossbolt spacers D2579 as per Dwg. D2580, QSI

For D2579 spacers, weld one side, pass 3/8" drill weld other side, pass 3/8" drill

A/R□□□ Aluminum Rod

MH2860

3-Grind welds as per Dwg D2580 Grind flush ridge made from bending

4-Drill holes for wearplates using DT 8217 & DT8937 Open holes to 19/64". adjust stopper not to hit web. Deburr

5-Counterbore crossbolt spacers to 7/16" ID x 1.0" deep as per Dwg D2580. Deburr holes

6-Drill pilot holes for aft cap using DT 8215Open holes to 0.208". Deburr

7-Drill pilot holes for Tow ring using DT8091, open to .640" and Deburr

W/O:			W	ORK ORDER CHANG	GES		•			
DATE	STEP	PRO	CEDURE CHA	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Cate	egory:	NCF	l: Yes I	No DQA	۸:	Date:	
Resolution:			Disposition	on:	QA:	N/C Clo	sed:		Date:	
NCR:		V	VORK ORD	ER NON-CONFORM	ANCE	(NCR	)			
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Sec Action Description Chief Eng	ction B	Sign & Date	Verific Section		Approval Chief Eng	Approval QC Inspector
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## Work Order ID 58224

April 29, 2010 11:39:28 AM

**Required Date:** 13/05/2010



Page 4

Item ID:

D205-634-041

Accept

Setup Start



**Revision ID:** 

Item Name:

Replacement Skidtube

**Start Date:** 

29/04/2010

Start Qty: 1.00

Req'd Qty: 1.00

**Cust Item ID:** 

**Customer:** 

Reference:

**Approvals:** 

Process Plan:

Date:

Tooling:

Date:

Run



Date:

**SPC (Y/N):** 

Date:

Stop

Stop

Sequence ID/ **Work Center ID** 

150

Quality Control

Operation Description

Set Up/ **Run Hours**  Draw Number

Draw Plan Rev. Code

Accept Qty

Reject **Qty** 

Reject Number Stamp

Insp.

160

Quality Control

QC10- Inspect visual per QSI004- ground welds

QC5- Inspect part completeness to step on W/O

Memo

0.00

0.00

0.00

0.00

8 10/05/12

170

HandFinish

Hand Finishing

Pressure Wash per QSI005 4.3

Memo

0.00

Memo

0.00

Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch and leave fwd

cap out of solution.

D BR 105-13.

W/O:			WC	RK ORDER CHANG	GES					
DATE	STEP	PRO	OCEDURE CHAI	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No: PAR #:										
						: N/C Closed: Date:				
NCR:		<b>\</b>	WORK ORDE	ER NON-CONFORM	ANCE	(NCR	)	•		
DATE	STEP	Description of NC	Corrective Action Section B			-	Verific	ation	Approval	Approval
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## Work Order ID 58224

April 29, 2010 11:39:28 AM



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Item ID:

D205-634-041

Accept



Setup Start



**Revision ID:** 

**Item Name:** 

Replacement Skidtube

**Start Date:** 

**Required Date: 13/05/2010** 

29/04/2010

QC:

Start Qty: 1.00

Req'd Qty: 1.00



10:00AM

Date:

**Cust Item ID:** 

**Customer:** 

Reference:

	_	
Ap	provals:	

Process Plan:

Date:

Tooling:

SPC (Y/N):

Date:

Draw

Rev.

Plan

Code

Date:

Accept

Qty

Run

Stop

Reject

Number

Reject

Qty

Start

Stop



Insp.

Stamp

Sequence ID/ **Work Center ID** 

180



Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

M11420 8

Set Up/ **Run Hours** 

0.00

Draw

Number

10/05/13

OVEN TEMPERATURE: FINISH TIME:

QC3- Inspect Part Finish

0.00



Quality Control

Memo

Memo

START TIME:

0.00

0.00

D BR10-5-17

W/O:		WORK ORDER CHANGES											
DATE	STEP	PRO	OCEDURE CH	IANGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
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Part No	·	PAR #:	Fault Ca	tegory:	NCR: Yes	No <b>DQA:</b>	Date: _						
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NCR:			WORK OR	DER NON-CONFORM	ANCE (NCF	R)							
DATE	STEP	Description of NC	Y	tion B	Verification	Approvai	Approval						
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector					
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## Work Order ID 58224

April 29, 2010 11:39:28 AM

**Required Date:** 13/05/2010



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Item ID:

D205-634-041

Accept



Setup Start



**Revision ID:** 

Item Name:

Replacement Skidtube

**Start Date:** 

29/04/2010

Start Qty: 1.00

Req'd Qty: 1.00



**Cust Item ID: Customer:** 

Draw

Number

Reference:

Δ	pprovals:	
7	ppi ovals.	

Process Plan:

Operation

Description

Date:

Tooling: SPC (Y/N):

Set Up/

**Run Hours** 

Date:

Draw

Rev.

Plan

Code

Date:

Run

Reject

Qty

Accept

Qty

Start Stop

Reject

Number



Insp.

Stamp

Sequence ID/ **Work Center ID** 

200



HandFinish Hand Finishing Memo

0.00

0.00

1-Install inserts & wearplates & Gaskets as per Dwg. D2580. Use a drop of

Sikaflex on insert holes before installing wearplates

Date:\_\_\_\_\_

A/R 🗆 🗆 🗆 Sikaflex-291

Sikaflex expire date:

2-Coat D2594-3 O' rings with Petroleum Jelly and install on D2594-1 plugs as

per Dwg D2580

3-Inspect for foreign object per OSI 024

4-Install 2855 Aft Cap as per Dwg D2580 and seal Fwd Step & Aft Cap with

Sikaflex. Clean excess adhesive

A/R □ □□ Sikaflex-291 1/042 P□ Sikaflex expire date: 1008,

5-Wing Walk as per Dwg D2580 and QSI 005 4.4

D BR 10.5-17.

W/O:			WC	RK ORDER CHANG	ES				•
DATE	STEP	PRO	PROCEDURE CHANGE				Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No <b>DQ</b>	A:	Date:	
Reso		solution:	Disposition	າ:	_ QA: N/C (	Closed:		Date:	
NCR:			WORK ORDI	ER NON-CONFORMA	NCE (NC	R)		104.71	
DATE	STEP	Description of NC	Corrective Action Section			Verifi	cation	Approval	Approval
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat		ion C	Chief Eng	QC Inspector
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## Work Order ID 58224

April 29, 2010 11:39:28 AM

**Required Date:** 13/05/2010



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Item ID:

D205-634-041

Accept



Setup Start

Stop



**Revision ID:** 

Item Name:

Replacement Skidtube

**Start Date:** 

29/04/2010

QC:

Start Qty: 1.00

Req'd Qty: 1.00



**Cust Item ID:** 

**Customer:** 

Reference:

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Process Plan:

Date:

Date:\_\_\_\_\_

Tooling:

SPC (Y/N):

Date:

Date:

Run Start

Qty

Stop

Sequence ID/

Work Center ID

210

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours** 

Draw Number

Draw Rev.

Plan Code

Accept Qty

Reject Reject Number

Insp. Stamp

0.00

0.00

0.00

0.00

Inspect Aft Cap, Fwd Step and Wing Walk of work to Current Step Inspect for

Foreign objects per OSI 024

220

Packaging

Packaging

Packaging

Memo

Identify and pack for shipping as per PPPD205-634-041

Location:

PPP Rev:

230

**Quality Control** 

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

MV 10-5-21

W/O:		WORK ORDER CHANGES										
DATE	STEP	PRO	PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
Part No		PAR #:	Fault Cate	gory:	NCR: Y	es N	o DQA		Date:			
Resolution: Disposition:												
NCR:			WORK ORD	ER NON-CONFORI	MANCE (N	CR)	4 - 1					
DATE	STEP	Description of NC			ection B		Verifica	ation	Approval	Approval		
DATE	Section A		Initial Action Description Chief Eng Chief Eng			n & ate	Section C		Chief Eng	QC Inspector		
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## Picklist Print

April 29, 2010 11:39:33 AM

Work Order ID: 58224

D205-634-041

Parent Item Name:

Replacement Skidtube

Comments:

Parent Item:

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD IPP Rev. O 06.02.28 Added paperwork EC

IPP Rev:P 07-07-09

SS Wearplates & Gaskets JLM Start Date: 29/04/2010

Required Date: 13/05/2010

Start Qty: 1.00

Required Qty: 1.00

D2580-1

Manufactured

No

110

Each

8.0000

205 Skidtube bent detail

Location LG

57902 57938

Manufactured

Manufactured

57028 57188

57347

140

Loc Code

2

2

Each

114.0000

Location LG

46661

52215

Loc Qty 114 66

Loc Oty

48

Loc Code

20

D2579

D2576-3

Step (maching detail)

Crossbolt Spacer

LG

No

140

Each

260

273.0000

Location Loc Qty 273 13

57052 57348 Loc Code

-20 BE 10/05/06

W/O:			V	VORK ORDER CHAN	IGES	······································			,	<u> </u>	
DATE	STEP	PRO	PROCEDURE CHANGE					Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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DATE	STEP	Description of NC Corrective Action			ection B		Verific	ation	Approval	Approval	
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#### Picklist Print

April 29, 2010 11:39:33 AM

Work Order ID: 58224

Parent Item:

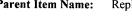
Comments:

D205-634-041



Parent Item Name:

Replacement Skidtube



IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28

IPP Rev:P 07-07-09 Added paperwork

SS Wearplates & Gaskets JLM Start Date: 29/04/2010

Required Date: 13/05/2010

Start Qty: 1.00

Required Qty: 1.00

D2855



Manufactured

No

No

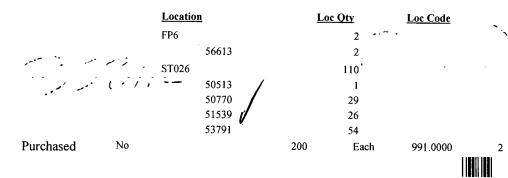
No

200

Each

112.0000

Cap		



Bolt

AN3-5A

Location			
ST350			

Loc Qty 991 991

Each-

Each

30

Loc Code

4,379.000

1210-5-17

Washer

AN960JD10L

ALS7-1032-130

Location ST348

110985

113238

Loc Qty 4379 4379

Loc Code

30.0000

- BR 10-5-17.

Purchased

Insert

AL54-1632-130

Purchased

Location ST282

114654 Loc Oty 30

200

200

Loc Code

April 29, 2010 11:39:33 AM

**Shop Packet Print** 

Page 2

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W/O:	,		WC	RK ORDER CHANG	GES				,	
DATE	STEP	PRO	PROCEDURE CHANGE				Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No <b>DQ</b>	A:	Date: _		
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#### Picklist Print

April 29, 2010 11:39:33 AM

Work Order ID: 58224

Parent Item:

D205-634-041

Parent Item Name:

Replacement Skidtube

Comments:

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork

IPP Rev:P 07-07-09

SS Wearplates & Gaskets

Start Date: 29/04/2010

50

**Required Date: 13/05/2010** 

Start Qty: 1.00

Required Oty: 1.00

AN3C4A

Purchased

No

200

Each

Loc Qty

2355

501

300

54

500

1000

Each

2,355.000

BOLT

•		
-1	. ••	

Manufactured

Manufactured

Purchased

No

No

No

200

200

Each

0.0000

41.0000

Loc Code

50 BR 10-5-17

AN960C10L



D3566-13



Gasket



Location

ST350

NAJ N49CO332R

53461

Loc Qty 41 41 200 Each Loc Code

31.0000

D3566-5



Gasket

Location FP015

56829 57682 Loc Qty 31

1 10 20 Loc Code

BR 10-5-17

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W/O:		WORK ORDER CHANGES										
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Da	te Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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NCR:		1	WORK ORD	ER NON-CONFORM	IANCE (N	CR)						
DATE	STEP	Description of NC		ction B	v	erification	Approval	Approval				
		Section A	Initial Chief Eng	Action Description Chief Eng		n & ite	Section C	Chief Eng	QC Inspector			
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## **Picklist Print**

April 29, 2010 11:39:33 AM

Page 4

Work Order ID: 58224

Parent Item:

D205-634-041

Parent Item Name:

Replacement Skidtube

Comments:

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev:P 07-07-09

IPP Rev. O 06.02.28 Added paperwork

SS Wearplates & Gaskets

Start Date: 29/04/2010

Required Date: 13/05/2010

Start Qty: 1.00

2

Required Qty: 1.00

D3566-1

Manufactured

Manufactured

No

200

Each

Loc Qty

58.0000

Gasket

Location FP015

57257 57715 58182

200

Each

4.0000

Loc Code

D3564-11

Wearshoe

Location

FP19

Loc Oty

Loc Code

D3564-13

Manufactured

No

No

200

Each

22.0000

Loc Code

Wearshoe

Location Loc Qty FP17 22 56533 10 57684 **i** 12

TBR 10-5-17.

D	arl	: A	erc	S	pac	ce	Ltd
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W/O:	•		WC	RK ORDER CHANG	ES					,
DATE	STEP	PROCEDURE CHANGE			В	у	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No				NCR: Yes No DQA: Date:						
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NCR:			WORK ORDI	ER NON-CONFORMA	ANCE (N	ICR)				
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## Picklist Print

April 29, 2010 11:39:33 AM

Work Order ID: 58224

D205-634-041



Parent Item Name:

Parent Item:

Replacement Skidtube

Comments:

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork EC

IPP Rev:P 07-07-09 SS Wearplates & Gaskets JLM

Start Date: 29/04/2010

Required Date: 13/05/2010

Start Qty: 1.00 Required Qty: 1.00

D3564-9 Wearshoe Manufactured No 200

Each

15.0000 

Location Loc Oty Loc Code FP 55334 FP019 14 57260 3 57685/ L 11

Manufactured No

Manufactured

200

Loc Oty

99 99

Each

7.0000

Wearshoe

D2594-3

D3564-5

Location Loc Oty Loc Code FG 34806 2 FP19 5 57525 5

O-Ring, 205 Skidtube

Location

No

200

Each 99.0000

16

Loc Code

16 bl 10-5-17.

April 29, 2010 11:39:33 AM

Dart Aerospace L	.ta
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W/O:		WORK ORDER CHANGES										
DATE	STEP	PR	PROCEDURE CHANGE					Approval Chief Eng / Prod Mgr	Approval QC Inspector			
Part No	:	PAR #:	Fault Categ	ory:	NCR: Yes No DQA: Date:							
						QA: N/C Closed: Date:						
NCR:			WORK ORDE	R NON-CONFORM	ANCE (NC	R)		-				
DATE S1	07-0	Description of NC		Corrective Action Sect	ion B	Verific	ation	Approval	Approval			
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## Picklist Print

April 29, 2010 11:39:33 AM

Work Order ID: 58224

Parent Item:

D205-634-041

Parent Item Name:

Replacement Skidtube

**Comments:** 

IPP Rev:N $\square$ 02.08.28 $\square$ FP was QC5 in Step 27; Added QC5 to Step 30 $\square$ KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork EC

IPP Rev:P 07-07-09

SS Wearplates & Gaskets JLM

Start Date: 29/04/2010

Required Date: 13/05/2010

Start Qty: 1.00

Required Qty: 1.00

D2594-1

Manufactured

No

200

Each

526.0000

16

Plug, 205 Skidtube

<b>Location</b>	Loc Qty
FP	526
42807	112
55002	208
57826	206

Loc Code

16. Pl 10-5-17.

W/O:			WC	RK ORDER CHANG	ES	***************************************			)			
DATE	STEP	PRO	OCEDURE CHANGE			Dat	e Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
				***								
Part No	•	PAR #:	Fault Cate	gory:	NCR: Yes No DQA: Date:							
	Res	olution:	Disposition	1:	_ QA: N/C	Closed:		Date: _				
NCR:			WORK ORDI	ER NON-CONFORMA	ANCE (N	CR)						
DATE	STEP Description of NC		Corrective Action Section B Initial Action Description			- Verification			Approval			
		Section A	Chief Eng	Action Description Chief Eng		n & ite	Section C	Chief Eng	QC Inspector			
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DESIG	H	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHEC	KED	APPROVED	DRAWING NO. REV	. D
	M	1 #	D2580 SHEET 1 OI	F 3
DATE			TITLE SC	ALE
07.0	02.27		205 SKIDTUBE ASSEMBLY	NTS
Α		96.09.16	NEW ISSUE	
В		96.12.02	AS MANUFACTURED	
С		98.08.26	REDRAWN, INCLUDED DEO 9094/9097	
D		07.02.27	CHANGE TO SS WEARPLATES AND GASKETS, INCLUDE DEO 9124/9183	



QTY -041	QTY -045	Part Number	Description	
Х		D2580-041	SKIDTUBE ASSEMBLY	
	Х	D2580-045	SKIDTUBE ASSEMBLY	
1	1	D2500-1-190	EXTRUSION	
1	1	D2576-3	STEP	<del></del>
20	24	D2579	CROSS BOLT SPACER	<del></del>
16	16	D2594-1	PLUG	<del></del>
16	16	D2594-3	O-RING	
1	1	D2596	205 WEB	
1	1	D2855	AFT CAP	
1	1	D3564-5	WEARSHOE	
1	_ 1	D3564-9	WEARSHOE	SHOP COPY
1	1	D3564-11	WEARSHOE	RETURN TO
1	1	D3564-13	WEARSHOE	ENGINEERING
2	2	D3566-1	GASKET	INCONTROLLED COR
_1	1	D3566-5	GASKET	
1	1	D3566-13	GASKET	UBJECT TO AMENDMENT WITHOUT NOTICE
50	50	ALS7-1032-130 or AKS7-1032-130 or AKS4-1032-130 or AELS-1032-130	INSERT	WORK ORDER NO. 55224 BS10-4-29
50	50	AN3C4A	BOLT	750-9-29
2	2	AN3-5A	BOLT	<del>-</del>
50	50	AN960C10L	WASHER	
2	2	AN960JD10L	WASHER	

#### **GENERAL NOTES:**

- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 2) ALL DIMENSIONS ARE IN INCHES
- 3) INSERT D2596 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241 ADHESIVE PER DART QSI 015 BEFORE BENDING. ENSURE HOLES LINE-UP.
- 4) BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF 60 AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
- 5) USE DART DRILL TEMPLATE TD2577-205 TO LOCATE AND DRILL Ø0.297 HOLES FOR WEARSHOE INSERTS. INSTALL ALS7-1032-130 PER SECTION D-D (50 PLACES) AFTER FINISH. INSTALL AN3C4A BOLTS AND AN960C10L WASHERS WITH SIKAFLEX-241/-291.
- 6) WELDING TO BE DONE PER DART QSI 004.
- 7) FINISH:

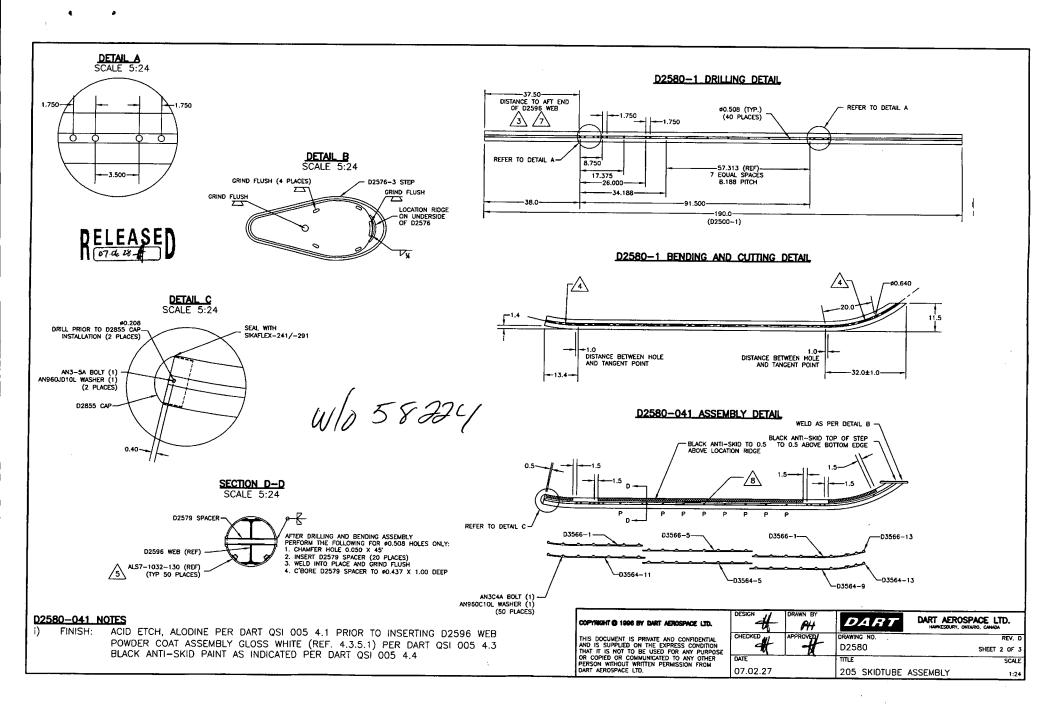
SEE NOTES ON PAGE 2 FOR D2580-041 AND PAGE 3 FOR D2580-045

8) INSERT D2594-1 PLUG C/W D2594-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE) AFTER FINISH (16 PLACES).

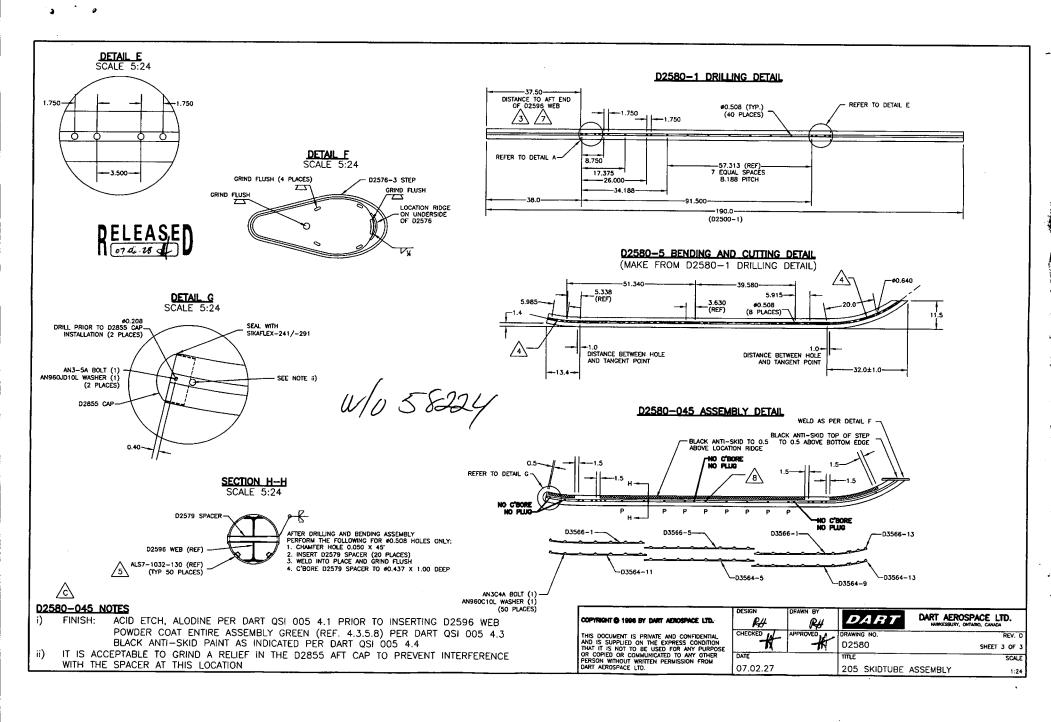
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W/O:			WORK ORDER CHANGES											
DATE	STEP	PRO	OCEDURE CHA	NGE	В	/	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
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DATE	STEP	Description of NC	Corrective Action Section B			0	Verification		Approval	Approval				
		Section A	Initial Chief Eng	Action Description Chief Eng		gn & late	Secti	on C	Chief Eng	QC Inspector				
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				137										



W/O:			W	ORK ORDER CHAN	GES				•		
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		,									
Part No	:	PAR #:	Fault Cate	Fault Category:			NCR: Yes No DQA:				
	Re	esolution:	Disposition	on:	QA: N/C	Closed	d:	Date: _	<del></del>		
NCR:			WORK ORD	ER NON-CONFORM	IANCE (N	CR)					
DATE	STEP	Description of NC Corrective Action			Section B Verificat			Approval Appro	Approval		
DATE	SIEP	Section A	Initial Chief Eng	Action Description  Chief Eng		n & ate	Section C	Chief Eng	QC Inspector		
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		esolution:							
NCR:			WORK ORDI	ER NON-CONFORMA	NCE (NCR	)			
DATE	STEP	Description of NC	Corrective Action Section B Initial Action Description			Verific		Approval	Approval
		Section A	Chief Eng	Action Description Chief Eng	Sign & Date	Section	on C	Chief Eng	QC Inspector
4.0									
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NO. 350

# AWS D17.1.2001 QUALIFICATION TEST RECORD

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# TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[ソ] pass[ソ	fail[ ]
UNACCEPTABLE		
Cracks:	pass[]	fail[ ]
Undercut:	pass[]	fail[ ]
Pin holes:	pass[/	fail[]
Overlap (cold lap)	pass[~]	fail[ ]
Porosity (surface):	pass[ ]	fail[ ]
Coloration:	pass[ ·]	fail[ ]
Qualifier / Cof / / / /	_Date of Tes	st Coupon io. (N.2)
Welder Braclas Street	Date of Test Coupon_10-104-27	